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Approved for use through 11/30/2005. OMB 0651-0035
U.S. Patent and Trademark Office; U.S. DEPARTMENT OF COMMERCE

FIRE MTH,
11-17-03 2183

Application Number	09/831 580
Filing Date	April 13, 2001
First Named Inventor	
Title	Aniedorf
Art Unit	System and Method for Instruction-Level Parallelism in Programmable Network Processor
Examiner Name	
Attorney Docket Number	84,888

I hereby appoint:

Practitioners at Customer Number:
OR

Practitioner(s) named below:

Name	Registration Number

as my/our attorney(s) or agent(s) to prosecute the application identified above, and to transact all business in the United States Patent and Trademark Office connected therewith.

Please recognize or change the correspondence address for the above-identified application to:

The above-mentioned Customer Number:
OR

The address associated with Customer Number:

OR

<input type="checkbox"/> Firm or Individual Name			
Address			
Address			
City	State	Zip	
Country			
Telephone	Fax		

I am the:

Applicant/Inventor.
 Assignee of record of the entire interest. See 37 CFR 3.71.
Statement under 37 CFR 3.73(b) is enclosed. (Form PTO/SB/96)

SIGNATURE of Applicant or Assignee of Record

Name: Thomas E. McDonnell
Signature:
Date: 22 Sept 03

Telephone: 703-696-4002

NOTE: Signatures of all the inventors or assignees of record of the entire interest or their representative(s) are required. Submit multiple forms if more than one signature is required, see below.

Total of _____ forms are submitted.

This collection of information is required by 37 CFR 1.31 and 1.93. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.14. This collection is estimated to take 3 minutes to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, U.S. Department of Commerce, P.O. Box 1450, Alexandria, VA 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.

If you need assistance in completing the form, call 1-800-PTO-9199 and select option 2.



Approved for use through 07/31/2006. OMB 0651-0031
U.S. Patent and Trademark Office, U.S. DEPARTMENT OF COMMERCE

STATEMENT UNDER 37 CFR 3.73(b)

Applicant/Patent Owner: The United States of America as represented by the Secretary of the Navy

Application No./Patent No.: 09/833,580 Filed/Issue Date: April 11, 2001

Entitled: SYSTEM AND METHOD FOR INSTRUCTION-LEVEL PARALLELISM IN A PROGRAMMABLE NETWORK PROCESSOR ENVIRONMENT
The United States of America as represented
by the Secretary of the Navy a Government Agency
 (Name of Assignee)

(Type of Assignee, e.g., corporation, partnership, individual, government agency)

states that it is:

- the assignee of the entire right, title, and interest, or
- an assignee of less than the entire right, title and interest.
The extent (by percentage) of its ownership interest is _____ %
in the patent application/patent identified above by virtue of either:

A. [] An assignment from the inventor(s) of the patent application/patent identified above. The assignment was recorded in the United States Patent and Trademark Office at Reel _____, Frame _____, or for which a copy thereof is attached.

OR

B. [x] A chain of title from the inventor(s), of the patent application/patent identified above, to the current assignee as shown below:

1. From: Intel 2 Apoldorf, Sam B. Sandborn To: Acorn Networks, INC.
The document was recorded in the United States Patent and Trademark Office at Reel 011747, Frame 0819, or for which a copy thereof is attached.
2. From: Acorn Networks, INC. To: by the Secretary of the Navy
The document was recorded in the United States Patent and Trademark Office at Reel _____, Frame _____, or for which a copy thereof is attached.
3. From: _____ To: _____
The document was recorded in the United States Patent and Trademark Office at Reel _____, Frame _____, or for which a copy thereof is attached.

[] Additional documents in the chain of title are listed on a supplemental sheet.

[x] Copies of assignments or other documents in the chain of title are attached.

(NOTE: A separate copy (i.e., the original assignment document or a true copy of the original document) must be submitted to Assignment Division in accordance with 37 CFR Part 3, if the assignment is to be recorded in the records of the USPTO. See MPEP 302.08)

The undersigned (whose title is supplied below) is authorized to act on behalf of the assignee.

22 Sept 2003

Date

703-696-4000

Telephone number

Thomas E. McDonnell

Dated or printed name

Thomas E. McDonnell

Signature

Patent Counsel/Att. Navy

Title

This collection of information is required by 37 CFR 3.73(b). The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.14. This collection is estimated to take 12 minutes to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments and suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, U.S. Department of Commerce, P.O. Box 1450, Alexandria, VA 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.

If you need assistance in completing the form, call 1-800-PTO-9199 and select option 2.



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OCT 20 2003

Technology Center 2100

U.S. Department of Commerce
Patent and Trademark Office
PATENT

J1033 U.S. PTO
09/08/2003
04/13/01

FORM PTO-1619A
Expires 06/30/98
GPO 0651-0027

4-13-01

05-04-2001



101702228

**RECORDATION FORM COVER SHEET
PATENTS ONLY**

TO: The Commissioner of Patents and Trademarks: Please record the attached original document(s) or copy(ies).

Submission Type

New
 Resubmission (Non-Recordation)
 Document ID#
 Correction of PTO Error
Reel # Frame #
 Corrective Document
Reel # Frame #

Conveyance Type

Assignment
 License
 Merger
 Security Agreement
 Change of Name
 Other

U.S. Government

For Use ONLY by U.S. Government Agencies

Departmental File Secret File

Conveying Party(ies)

Mark if additional names of conveying parties attached

Execution Date
Month Day Year

April 13, 2001

Name (line 1) **Joel Zvi Apisdorf**

Name (line 2)

Second Party

Name (line 1) **Sam Brandon Sandbute**

Name (line 2)

09853580

Execution Date
Month Day Year

April 13, 2001

Receiving Party

Mark if additional names of receiving parties attached

If document to be recorded
is an assignment and the
receiving party is not
domiciled in the United
States, an appointment
of a domestic
representative is attached.
(Designation must be a
separate document from
Assignment.)

Name (line 1) **Acorn Networks, Inc.**

Name (line 2)

Address (line 1) **11491 Sunset Hills Road**

Address (line 2) **Suite 350**

Address (line 3) **Reston**

City

VA

State/Country

20190

Zip Code

Domestic Representative Name and Address

Enter for the first Receiving Party only.

Name

Address (line 1)

Address (line 2)

Address (line 3)

Address (line 4)

FOR OFFICE USE ONLY

101702228 000004 501883 09853580

40.00 CH

Rev 3/14/01

PATENT
REEL: 011747 FRAME: 0815

Correspondent Name and Address

Area Code and Telephone Number

(703) 456-8000

Name **Cooley Godward LLP**

Address (line 1) **One Freedom Square**

Address (line 2) **Reston Town Center**

Address (line 3) **11951 Freedom Drive**

Address (line 4) **Reston, Virginia 20190-5601**

Pages

Enter total number of pages of the attached conveyance document
including any attachments.

5

Application Number(s) or Patent Number(s)

Mark if additional numbers attached

Enter either the Patent Application Number or the Patent Number (DO NOT ENTER BOTH numbers for the same property).

Patent Application Number(s)

<input type="text"/>	<input type="text"/>	<input type="text"/>
<input type="text"/>	<input type="text"/>	<input type="text"/>
<input type="text"/>	<input type="text"/>	<input type="text"/>

<input type="text"/>	<input type="text"/>	<input type="text"/>
<input type="text"/>	<input type="text"/>	<input type="text"/>
<input type="text"/>	<input type="text"/>	<input type="text"/>

If this document is being filed together with a new Patent Application, enter the date the patent application was signed by the first named executing inventor.

Month **April** Day **13** Year **2001**

Patent Cooperation Treaty (PCT)

Enter PCT application number
only if a U.S. Application Number
has not been assigned.

<input type="text"/> PCT	<input type="text"/> PCT	<input type="text"/> PCT
<input type="text"/> PCT	<input type="text"/> PCT	<input type="text"/> PCT

Number of Properties

Enter the total number of properties involved.

1

Fee Amount

Fee Amount for Properties Listed (37 CFR 3.41): \$ **40**

Method of Payment:

Deposit Account

(Enter for payment by deposit account or if additional fees can be charged to the account.)

Enclosed Deposit Account

Deposit Account Number: # **50-1283**

Authorization to charge additional fees: Yes No

Statement and Signature

To the best of my knowledge and belief, the foregoing information is true and correct and any attached copy is a true copy of the original document. Charges to deposit account are authorized, as indicated herein.

David J. O'Neill (RN 42,953)

Name of Person Signing

Signature

Date



Rev 03/28/2001

Attorney Docket No: ACRN-003/00US

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OCT 20 2003

PATENT

Technology Center 2100

ASSIGNMENT
(Joint)

Joel Zvi Apisdorf, residing at, 12205 Nutmeg Lane, Reston, VA 20191; Sam Brandon Sandbute, residing at, 1988 Crescent Park Drive, Reston, VA 20190 (hereinafter each referred to as "Assignor") have made an invention(s) relating to certain new and useful improvements in:

SYSTEM AND METHOD FOR INSTRUCTION-LEVEL PARALLELISM IN A PROGRAMMABLE MULTIPLE NETWORK PROCESSOR ENVIRONMENT

set forth in an application for Letters Patent of the United States, which is a

- (1) provisional application
 - (a) to be filed herewith; or
 - (b) bearing Application No. , and filed on ; or
- (2) non-provisional application
 - (a) having an oath or declaration executed on April 13, 2001 prior to filing of application; or
 - (b) bearing Application No. , and filed on ; and

WHEREAS, ACORN NETWORKS, INC. a corporation duly organized under and pursuant to the laws of Delaware, and having its principal place of business at 11491 Sunset Hills Road, Suite 350, Reston, VA 20190 (hereinafter referred to as "the Assignee"), is desirous of acquiring the entire right, title, and interest in and to said invention(s), the right to file applications on said invention(s) and the entire right, title and interest in and to any applications, including provisional applications for Letters Patent of the United States or other countries claiming priority to said application, and in and to any Letters Patent or Patents, United States or foreign, to be obtained therefor and thereon;

NOW, THEREFORE, in consideration of One Dollar (\$1.00) and other good and sufficient consideration, the receipt of which is hereby acknowledged, the Assignor has sold, assigned, transferred, and set over, and by these presents does sell, assign, transfer, and set over, unto the Assignee, its successors, legal representatives, and assigns the entire right, title, and interest in and to the above-mentioned invention(s), the right to file applications on said invention(s) and the entire right, title and interest in and to any applications for Letters Patent of the United States or other countries claiming priority to said applications, and any and all Letters Patent or Patents of the United States of America and all foreign countries that may be granted therefor and thereon, and in and to any and all applications claiming priority to said applications, divisions, continuations, and continuations-in-part of said applications, and reissues and extensions of said Letters Patent or Patents, and all rights under the Paris Convention for the Protection of Industrial Property, the same to be held and enjoyed by the Assignee, for its own use and behalf and the use and behalf of its successors, legal representatives, and assigns, to the full end of the term or terms for which Letters Patent or Patents may be granted as fully and entirely as the same would have been held and enjoyed by the Assignor had this sale and assignment not been made;

COPY

PATENT
REEL: 011747 FRAME: 0817

AND for the same consideration, the Assignor hereby covenants and agrees to and with the Assignee, its successors, legal representatives, and assigns, that, at the time of execution and delivery of these presents, the Assignor is a lawful owner of the entire right, title, and interest in and to the invention(s) set forth in said applications and said applications, including provisional applications, above-mentioned, and that the same are unencumbered, and that the Assignor has good and full right and lawful authority to sell and convey the same in the manner herein set forth;

AND for the same consideration, the Assignor hereby covenants and agrees to and with the Assignee, its successors, legal representatives, and assigns that the Assignor will, whenever counsel of the Assignee, or the counsel of its successors, legal representatives, and assigns, shall advise that any proceeding in connection with said invention(s) or said applications for Letters Patent or Patents, or any proceeding in connection with Letters Patent or Patents for said invention(s) in any country, including interference proceedings, is lawful and desirable, or that any application claiming priority to said application, division, continuation, or continuation-in-part of any applications for Letters Patent or Patents, or any reissue or extension of any Letters Patent or Patents to be obtained thereon, is lawful and desirable, sign all papers and documents, take all lawful oaths, and do all acts necessary or required to be done for the procurement, maintenance, enforcement and defense of Letters Patent or Patents for said invention(s), without charge to the Assignee, its successors, legal representatives, and assigns, but at the cost and expense of the Assignee, its successors, legal representatives, and assigns;

AND the Assignor hereby authorizes and requests the attorneys of COOLEY GODWARD L.L.P. to insert in the spaces provided above the filing date, application number, the dates of execution of the oath or declaration, and attorney docket number of said application when known;

AND the Assignor hereby requests the Commissioner of Patents to issue any and all said Letters Patent of the United States to the Assignee, as the Assignee of said invention(s) and the Letters Patent to be issued thereon for the sole use and behalf of the Assignee, its successors, legal representatives, and assigns.

Date: 13 April 2001

By: _____



Joel Zvi Apisdorf

State of: Virginia

County of: Fairfax

The preceding Assignment was acknowledged before me this _____ day of _____.

by _____

Notary Public

My Commission Expires:

PATENT
REEL: 011747 FRAME: 0818

Date: 4/13/2001

By:


Sam Brandon Sandbute

State of: **VIRGINIA**

County of: **FAIRFAX**

The preceding Assignment was acknowledged before me this _____ day of
_____, by _____.

Notary Public

My Commission Expires:

92855 v1/RE
1ZNB011.DOC

RECORDED: 04/13/2001

PATENT
REEL: 011747 FRAME: 0819

ASSIGNMENT

WHEREAS, ACORN NETWORKS, INC., a corporation organized under the laws of _____, is the lawful owner of the entire right, title, and interest in the following patents and/or patent applications:

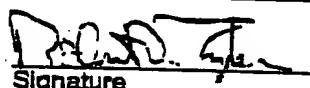
Patent Title	Application/Patent Number	Inventors
Real-Time Scheduler Method and Apparatus	Patent #US 6,195,699 B1	Jack B Dennis
Multithread Computer Design to Support 60/166,684 an Advanced Programming Model		Jack B Dennis
Multiple Buffer Queuing of Data Packets with High Throughput Rate	09/688,407	Tam-Anh Chu
Multi-Thread Peripheral Processing Using Dedicated Peripheral Bus	09/715,772	Jack B Dennis, Sam B Sandbore
Locking Memory Accesses in Multi- Thread Computing System	09/715,773	Jack B Dennis
Prioritizing Resource Utilization In Multi- Thread Computing System	09/715,778	Jack B Dennis
Priority Mechanism for a Multithreaded Computer	60/166,686	Jack B Dennis
Integrated Processor for Multithread Computer with Real-Time Input/Output Capability	60/166,686	Jack B Dennis
Data-Locking Schemes for Multithread Computer	60/166,687	Jack B Dennis
System and Method for Processing Overlapping Tasks in a Programmable Network Processor Environment	09/833,581	Jack B Dennis, Joel Z Apisdorf, Sam B. Sandbore
System and Method for Data Forwarding in a Programmable Network Processor Environment	09/833,578	Jack B Dennis, Joel Z Apisdorf, Michael D Poole
System and Method for Instruction-Level Parallelism in a Programmable Network Processor Environment	09/833,580	Joel Z Apisdorf, Sam B. Sandbore
Adaptive Control of Multiplexed Input Buffer Channels	09/859,150	Sam B Sandbore
Shift Processing Unit	09/833,788	Sam B Sandbore

WHEREAS, the Government of the United States, as represented by the Secretary of the Navy and hereinafter referred to as the Government, is desirous of acquiring an assignment of the invention disclosed in said applications and/or patents; and

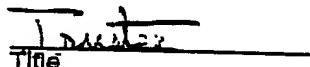
WHEREAS, Acorn Networks, Inc., is desirous of granting such an assignment;

NOW, THEREFORE, in consideration of good and valuable consideration the receipt of which is hereby acknowledged, Acorn Networks, Inc. hereby assigns and transfer to the Government the entire right, title and interest in and to U.S. Patent No. 6,195,699, and in and to U.S. Patent Application Nos. 60/166,884, 69/688,407, 09/715,772, 09/715,773, 09/715,778, 60/166,685, 60/166,686, 60/166,867, 09/833,581, 09/833,578, 09/833,580, 09/859,150, and 09/933,786, and the entire right, title and interest in and to any continuation, division, or substitution thereof, and such Letters Patent as may issue therefrom and any reissue or extensions thereof, said invention, application and Letters Patent to be held by the Government to the end of the term for which said Letters Patent may be granted, as fully and entirely as the same would have been held by Acorn Networks, Inc. had this assignment not been made.

Executed this 11th day of JUNE, 2002, at ALEXANDRIA, VA



Signature



Title

UNITED STATES BANKRUPTCY COURT
Eastern District of Virginia
Alexandria Division

In Re:

CASE NO. 02-81375-RGM

ACORN NETWORKS, INC.

Debtor(s)

(Chapter 7)

APPOINTMENT OF INTERIM TRUSTEE AND TRUSTEE
AND DESIGNATION OF REQUIRED BOND

ROBERT C. TYLER of ALEXANDRIA, VIRGINIA,
is hereby appointed Interim Trustee for the estate(s) of the above named
debtor(s). Unless a trustee is elected at the meeting of creditors to be
called pursuant to Section 341 of Title 11, United States Code, in the above
referenced case, the Interim Trustee shall serve as Trustee.

This case is covered by the blanket bond for Chapter 7 case Trustees, a
copy of which is on file with the Court.

March 26, 2002

Dated

W. Clarkson McDow, Jr.
United States Trustee

By: 

Dennis J. Early
Asst. U.S. Trustee
115 S. Union Street
Suite 210
Alexandria, Virginia 22314
(703) 557-7176